

COMPARTMENT SEAL

Abstract

A compartment seal is disposed about an automotive tube or hose at the automotive firewall to prevent leakage of smoke and fumes generally from an engine compartment to an occupant compartment. The compartment seal comprises a rigid washer body member having a plurality of apertures circumferentially arranged around an opening therethrough. The plurality of apertures is receptive to fasteners for attachment of the body member to the automotive firewall to provide a seal between the engine compartment and the occupant compartment. The tube or hose passes through the opening in the body member. The body member includes a seal component within the opening configured to form a seal between a periphery of the tubular structure and the seal component. The seal component is disposed within the opening of the body member. The seal component provides a seal between the tubular structure and the body member and allows significant angular displacement of the tubular structure from the centerline without compromising the integrity of the seal component between the body member and the tubular structure. The compo-

nent seal comprises a resilient seal bonded to the body member disposed in the opening of the body member. The component seal is nonplanar having an angle configured therein from the body member to a central opening, this central opening being smaller in diameter than the tubular structure passing therethrough to provide the necessary sealing tension.